Password Strength

A good password needs to meet multiple criteria (https://en.wikipedia.org/wiki/Password_strength) to make it difficult to guess. Those criteria include... (In this question, you only need to consider English language password)

- 1. Must have at least 8 characters
- 2. Must have at least 1 Uppercase letter, 1 Lowercase letter, 1 Number, and 1 other Symbol
- 3. Must not have the same 4 consecutive characters
- 4. Must not have 4 consecutive number in ascending or descending order, such as 0123, 2345, 7890, 0987, ...
- 5. Must not have 4 consecutive letter in ascending or descending order, such as **abcd**, **wxyz**, **zyxw**, ...
- 6. Must not have 4 consecutive character that are next to each other on keyboard, whether it's from left to right or right to left, such as

Reference from a picture below, you only have to consider order of button in horizontal row (Pink highlight)



Write a program to receive password to analyze which criteria this password is missing

Input

Password as String value on a single line

Output

List of messages that describe missing criteria of input password (If there are multiple missing criteria, show it in the order specified below (one on each line)).

• If missing the 1st criteria, show

• If missing the 2nd criteria (Lowercase), show

• If missing the 2nd criteria (Uppercase), show

Less than 8 characters

No lowercase letters

No uppercase letters

If missing the 2nd criteria (Number), show
 If missing the 2nd criteria (Symbol), show
 If missing the 3rd criteria, show
 If missing the 4th criteria, show
 If missing the 5th criteria, show
 If missing the 6th criteria, show
 If all criteria are met, show
 OK

Example

Input (from keyboard)	Output (on screen)
pass	Less than 8 characters
	No uppercase letters
	No numbers
	No symbols
QWERTY1234&	No lowercase letters
	Number sequence
	Keyboard pattern
abcd9999	No uppercase letters
	No symbols
	Character repetition
	Letter sequence
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Hint

This program has many different analyzing part. You can use function to organize the code and make correcting error easier. Such as a code format below

```
def no_lowercase(t):# return True if no lowercase, otherwise return False
def no_uppercase(t):
def no_number(t):
def no_symbol(t):
def character_repetition(t):
def number_sequence(t):
def letter_sequence(t):
def keyboard_pattern(t):
passw =input().strip()
errors =[]
if len(passw) < 8:</pre>
errors.append("Less than 8 characters")
if no_lowercase(passw):
errors.append("No lowercase letters")
if no_uppercase(passw):
if len(errors) - 0:
else:
```